

# PATENT ABSTRACTS OF JAPAN

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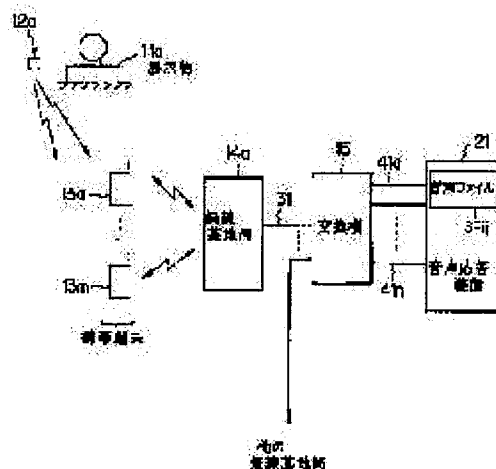
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## (54) INFORMATION GUIDANCE SYSTEM

(57)Abstract:

PURPOSE: To make respective visitors capable of listening to guidance relating to displayed objects from a head and to make a portable terminal small and light in weight.

CONSTITUTION: The portable terminal 13a transmits a service number for information guidance through a control line to a radio base station 14a and requests call setting to an audio response equipment 21, the radio base station 14a transmits a call setting request to an exchange 15 and the exchange 15 sets an audio line 41a to the audio response equipment 21. Thereafter, the portable terminal 13a transmits information (a displayed object number, a language and an information depth) for specifying an audio file through the radio base station 14a → the exchange 15 → the audio line 41a to the audio response equipment 21. The audio response equipment 21 takes out the information relating to the displayed object 11a from the audio file SFij based on the information for specifying the audio file, converts it into audible sound, sends out audible signals to the audio line 41a and transmits audio signals through the exchange 15 → the radio base station 14a to the portable terminal 13a which originated a call.



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CLAIMS

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[Claim(s)]

[Claim 1] The audio response unit which takes out the information about a display object from the voice file which accumulated much voice files in order to offer the information about a display object with voice to a visitor, and was specified using voice file designation information, and is outputted by audible sound, The cordless personal digital assistant which a visitor carries, and the base transceiver station which performs connection control between the wire circuits to the wireless circuit and the exchange to a personal digital assistant, Have the exchange which performs connection control between a base transceiver station and an audio response unit, and a personal digital assistant transmits the service number for information guidance to a base transceiver station, and performs the call setup demand to an audio response unit. As for a base transceiver station, when the call setup demand to an audio response unit from a personal digital assistant is received, delivery and the exchange set a voice circuit [ as opposed to an audio response unit for this call setup demand ] as the exchange based on this call setup demand through a wire circuit. Subsequently A personal digital assistant transmits voice file designation information to an audio response unit through a base transceiver station, the exchange, and said voice circuit. An audio response unit takes out the speech information about a display object from the voice file specified using said voice file designation information, and changes it into audible sound. The information guidance system characterized by transmitting to said personal digital assistant which sent out this audible-sound signal to said voice circuit, and carried out call origination of this audible-sound signal through the exchange and a base transceiver station.

[Claim 2] It is the information guidance system according to claim 1 characterized by equipping said information guidance system with the feeble signal transmitter which transmits a display object number with a feeble signal while it is further installed near the display object, and for a personal digital assistant receiving this feeble signal, identifying a display object number, and sending out this display object number as said voice file designation information.

[Claim 3] Said feeble signal transmitter is an information guidance system according to claim 2 characterized by transmitting a feeble signal intermittently.

[Claim 4] It is the information guidance system according to claim 1 which said audio response unit is equipped with the voice file by two or more language for every display object, and a personal digital assistant makes a display object number and selected language voice file-designation information, and is characterized by to transmit to an audio response unit, and for an audio response unit to take out speech information from the voice file specified by this display object number and language, to change into audible sound, and to transmit this audible-sound signal to a personal digital assistant through said voice circuit.

[Claim 5] Said audio response unit is equipped with two or more voice files which responded to information depth for every display object. A personal digital assistant is transmitted to an audio response unit by making a display object number and selected information depth into voice file designation information. An audio response unit is an information guidance system according to claim 1 characterized by taking out speech information from the voice file specified with this display object

number and information depth, changing into audible sound, and transmitting this audible-sound signal to a personal digital assistant through said voice circuit.

[Claim 6] And it has a voice file by two or more language for every information depth. said audio response unit -- every display object -- A personal digital assistant is transmitted to an audio response unit by making a display object number, selected information depth, and selected language into voice file designation information. An audio response unit is an information guidance system according to claim 1 characterized by taking out speech information from the voice file specified by this display object number, information depth, and language, changing into audible sound, and transmitting this audible-sound signal to a personal digital assistant through said voice circuit.

[Claim 7]

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## DETAILED DESCRIPTION

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[Detailed Description of the Invention]

[0001]

[Industrial Application] This invention can provide each visitor with the explanation especially about a display object with voice from the start, and, moreover, relates to the information guidance system which can perform explanation about a display object with voice with the language which each visitor wishes, or information depth (detail explanation, outline explanation) with respect to the information guidance system which offers the information (explanation) about a display object with voice to visitors, such as a museum and an art gallery.

[0002]

[Description of the Prior Art] In a museum or an art gallery, a visitor needs explanation etc. about each display object in an exhibition room in many cases. Conventionally, the terminal which a visitor holds using feeble FM broadcasting, infrared radiation, or a supersonic wave was provided with information by the broadcast formula. the transmitter which is formed in a display object what drawing 14 is this conventional information guidance structure-of-a-system Fig., and 1 is a source of broadcast sending out, and holds the guidance voice of the number of number of display objects x language, and 2a-2n, is formed near each display object 3a-3n, and transmits the guidance sound signal about a display object, 4a1-4am, 4b, and ... 4n is a receiver which a visitor carries. Each transmitter sends out the voice about a corresponding display object by FM signal, infrared radiation, or the ultrasonic signal, and each receiver receives the signal sent out from the transmitter, gets over, and outputs voice. ... The 1st conventional method [0003] Moreover, as another information guidance method, there is a method which uses a CD player as a personal digital assistant. Drawing 15 is the conventional information guidance structure-of-a-system Fig. which used this portable CD player, and 5a-6c1-6cm ... 6n 5n are a display object, 6a1-6am, 6b1-, and a CD player with which 1 and a visitor carry -. Since correspondence of a number and a display object is defined beforehand, each visitor can hear the information about this display object with voice from the start, if the number of the display object to wish to have is inputted from the control unit of a CD player. ... The 2nd conventional method [0004]

[Problem(s) to be Solved by the Invention] By the 1st conventional method, a personal digital assistant is made into a small light weight, and there is an advantage with convenient carrying. However, since search of explanation of a display object cannot be performed according to an individual for every visitor, there is a problem that explanation must be heard from the middle. Moreover, by the 1st conventional method, in case the layout of a display object is changed, the installation location of a transmitter must also be changed and there is a problem for which modification of wiring is needed. On the other hand, by the 2nd conventional method, explanation of a display object is given separate for every visitor, therefore each visitor has the advantage which can hear explanation from the start. However, the key stroke for supplying the number of a display object is troublesome, since it moreover has a disk mechanical component, a personal digital assistant is comparatively large, and weight is heavy, and there is a problem from which carrying becomes inconvenient. As mentioned above, it is a personal digital assistant's being made as for the purpose of this invention to a small light weight, and it

not being necessary to change the location of a transmitter in the case of layout modification of a display object and moreover, and giving explanation of a display object separate for every visitor, therefore each visitor's being able to hear explanation from the start, and offering an information guidance system with still better operability.

[0005]

[Means for Solving the Problem] Drawing 1 is the principle explanatory view of this invention. The feeble signal transmitter to which 11a transmits a display object number with a feeble signal while a display object and 12a are installed near each display object, The cordless personal digital assistant which a visitor carries 13a-13m, the base transceiver station where 14a performs connection control between the wireless circuit to a personal digital assistant, and the wire circuit to the exchange, The exchange by which 15 performs connection control between base transceiver station 14a and an audio response unit, 21 is an audio response unit which takes out the information about a display object from the voice file which accumulated much voice files SFij in order to offer the information about a display object with voice to a visitor, and was specified using voice file designation information, and is outputted by audible sound.

[0006]

[Function]